

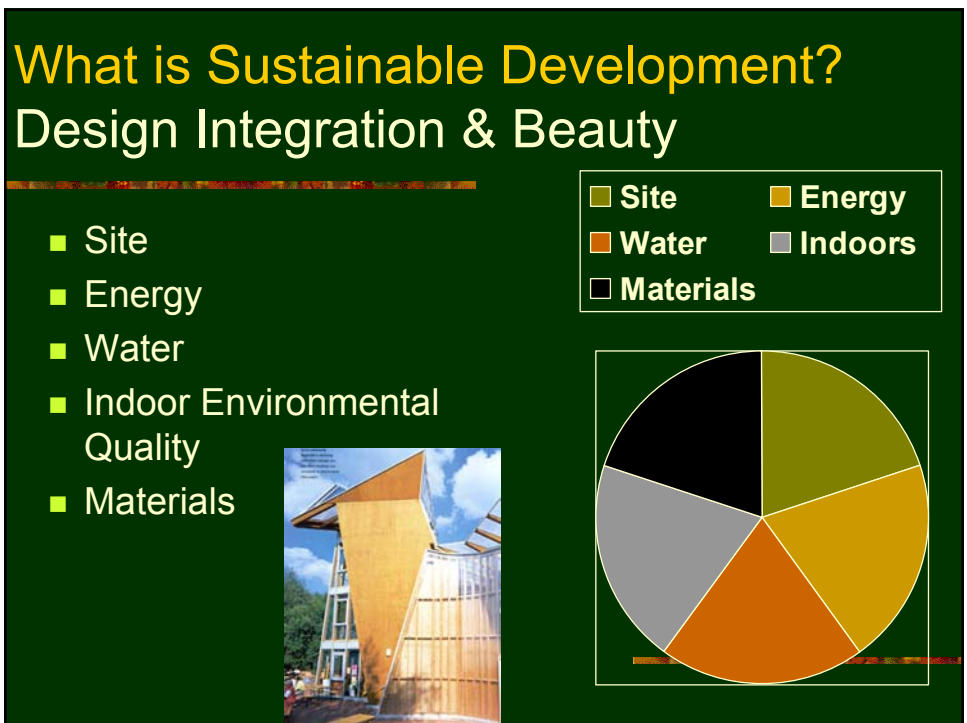
Creating Magical Hawaiian Buildings through Sustainable Development By Gregory Franta, FAIA

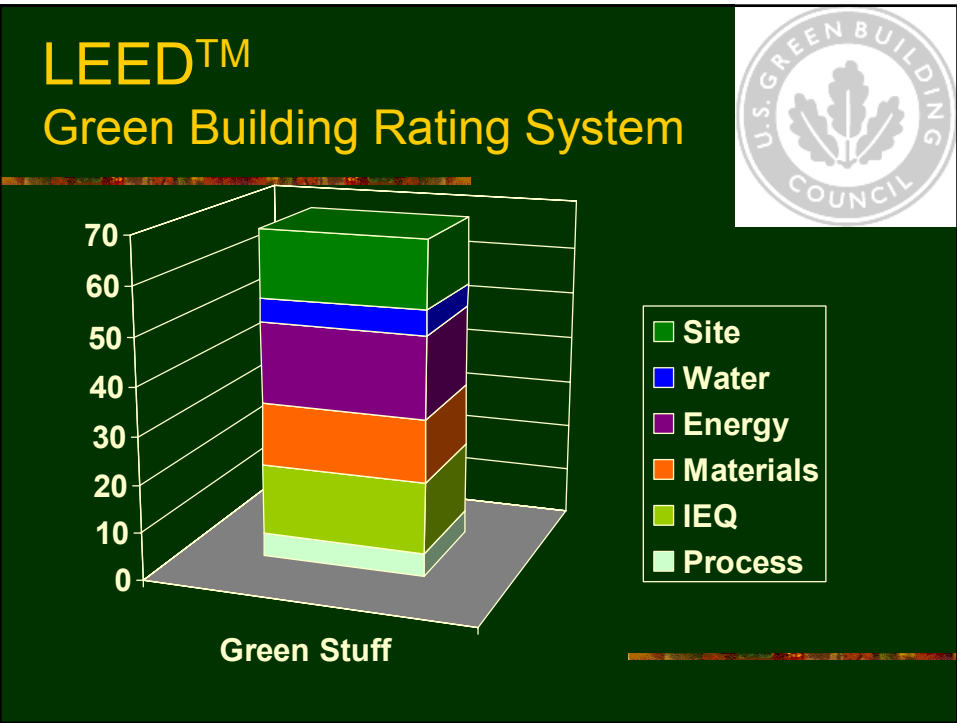


Building Form and Envelope

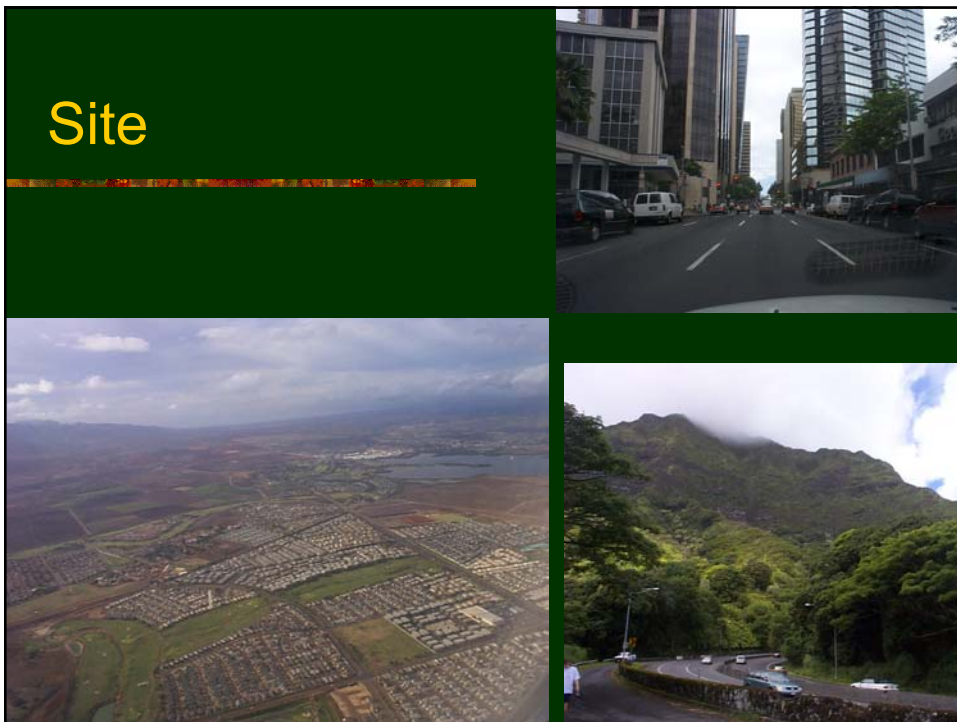
- “We shape our buildings
and afterwards our
buildings shape our
lives” *Churchill*







Site



Reduction in Auto Use



Changing Areas, Lockers, Showers for Hiker/Bikers



Alternative Transportation



Energy



Shading



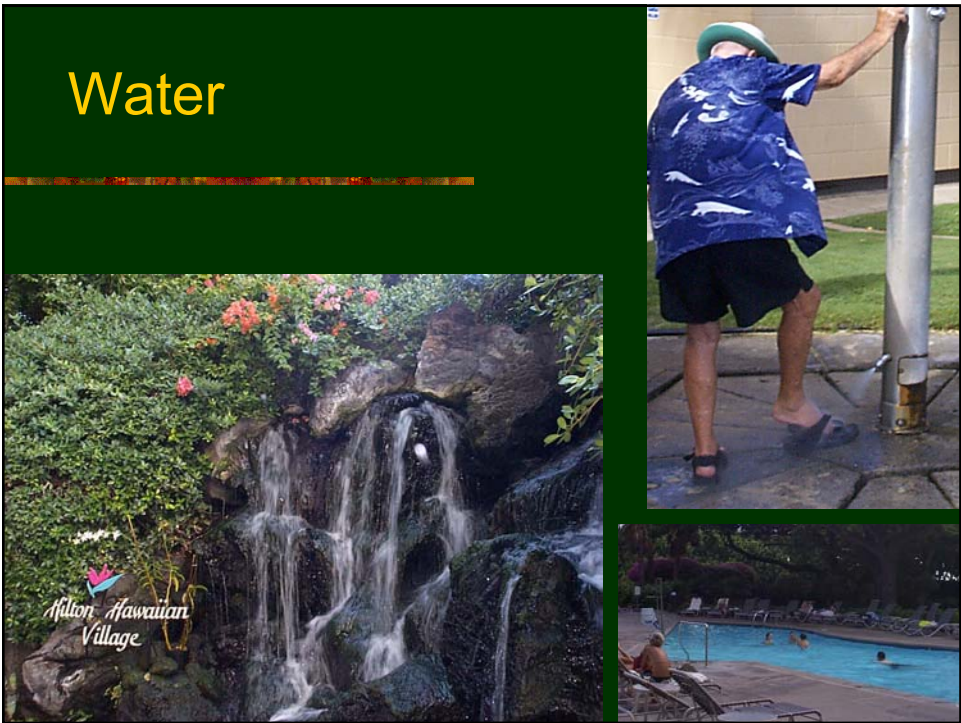
Shading, Orientation



Good & Efficient Lighting

- Brighten Surfaces
- Reduce Brightness Differences





Native Vegetation



Water integrated architecture



Plumbing Fixtures



Indoors



Natural Light in Buildings



What we are not talking about



Strong connections to Nature





Strong use of Natural Light

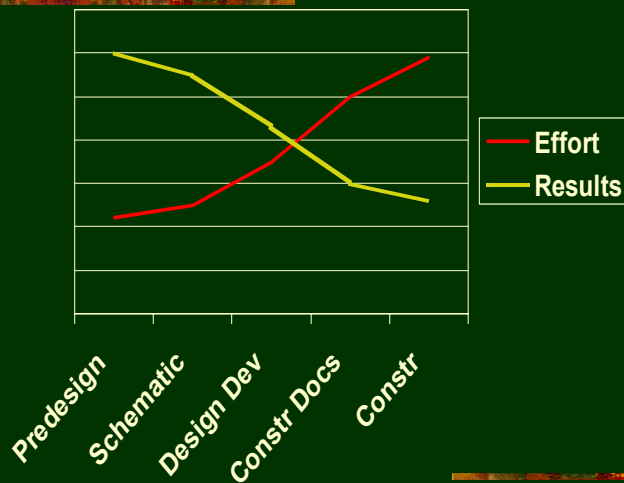
Materials



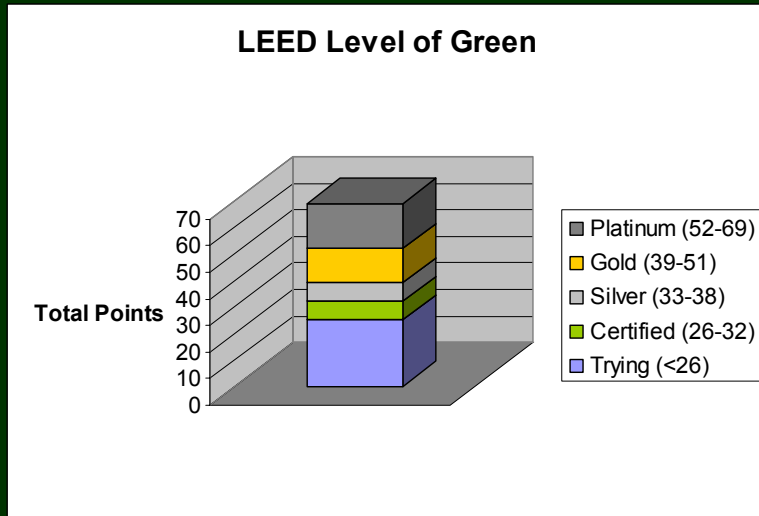
Environmentally Preferable?



Effort Compared to Results



Certification Levels



Great Lakes Naval Training Ctr. LEED Certified Level

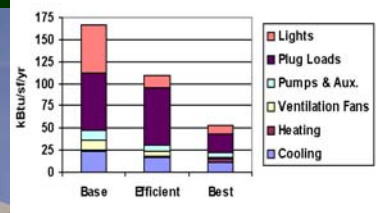


Great Lakes Naval Training Center

■ 1st Federal LEED Certified



Dallas Police Headquarters – LEED “Silver” Registered for 2.0



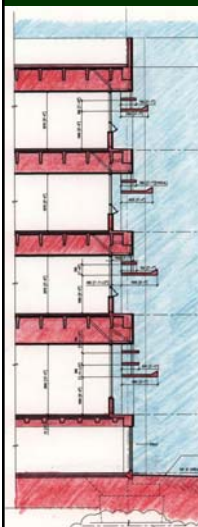
NOAA Lab Facility Hawaii -LEED "Gold" Rating



Architects:
Ferraro Choi and Associates



NOAA Lab



Chesapeake Bay Foundation

LEED Platinum



University of Hawaii

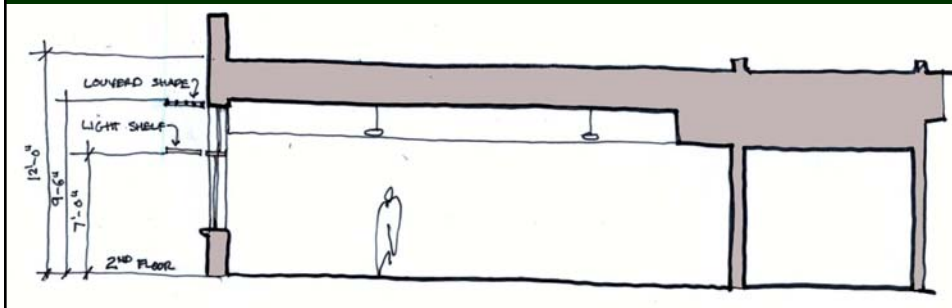
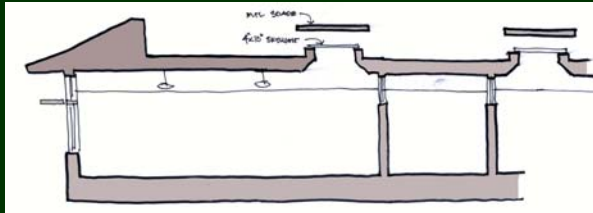
- John A Burns School of Medicine and Wellness Center
- Design Development
- Target: LEED Certified
- Architects Hawaii



Iolani School

Honolulu Campus

- Architects:
Group 70
International

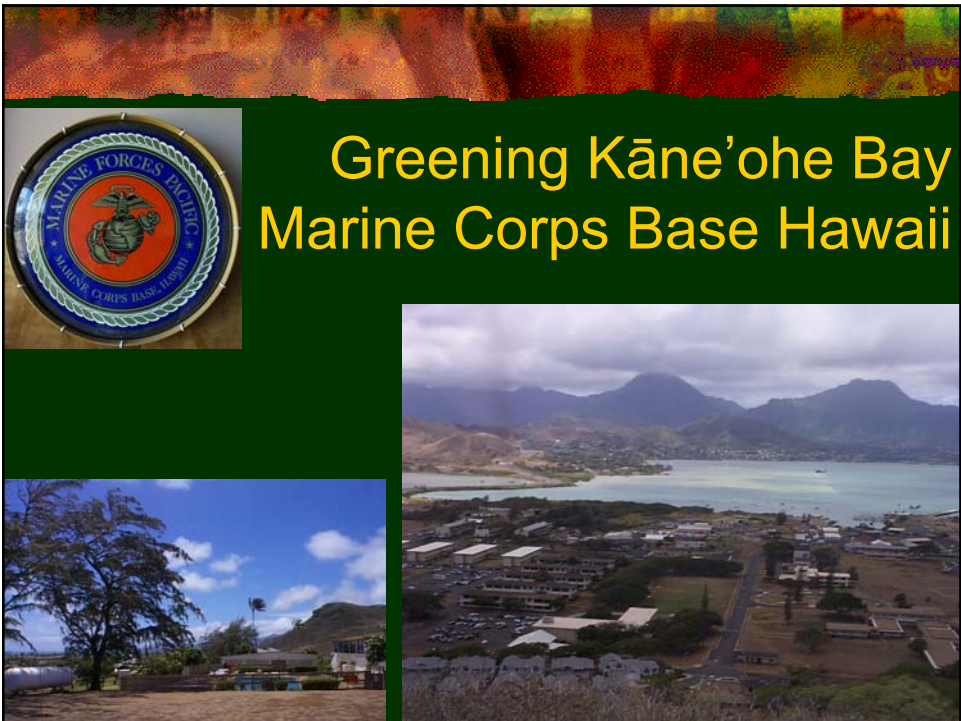


Hickam Air Force Base



- *"Building 1102 is the nerve center, the headquarters for all air operations in PACAF...make this a model for the Air Force of flexibility and cutting edge technology, using sustainable design and life cycle costs..."—Bernie Marcos*





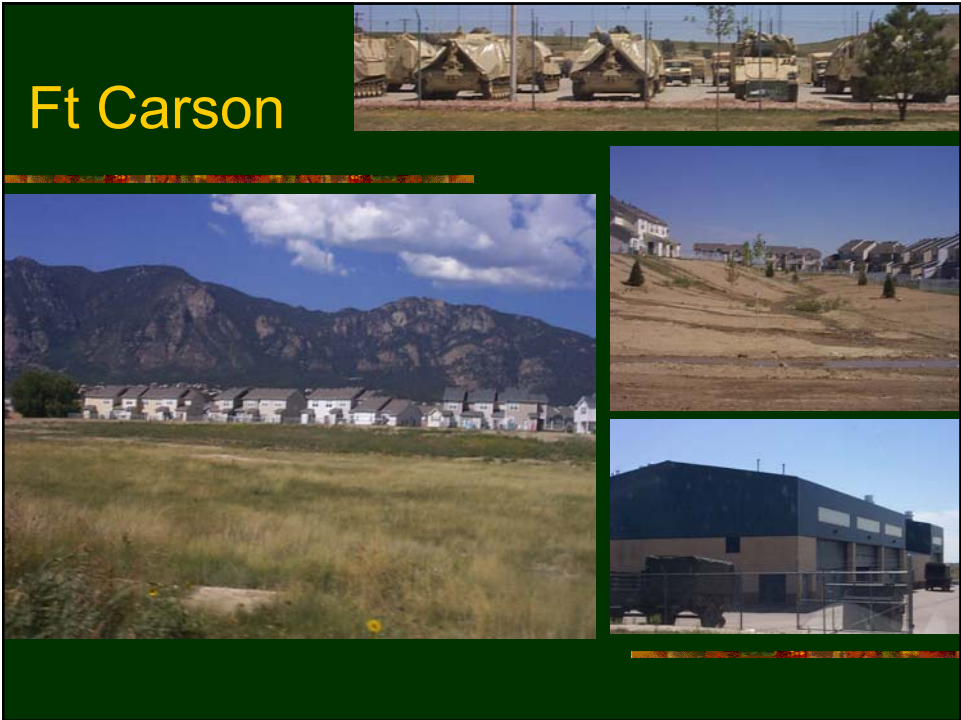


Navy Mid South



Ft Bragg





Port Heuneme



Sandia National Laboratory





High Performance, Sustainable Development



LEED

- Site
- Water
- Energy
- Materials
- IEQ



Kermit says... It aint easy being green



- Greg Franta, FAIA
- ENSAR Group, Inc.
- 2305 Broadway
- Boulder, Colorado 80304
- 303-449-5226
- Web: <http://www.ensargroup.com>